



July 29, 2021

Andy Warnick  
Rosemont Copper Company  
5255 East Williams Circle, Suite W1065  
Tucson, AZ 85711

TEL (520) 400-0085  
FAX (520) 495-3540

RE: Baseline Stormwater Monitoring

Work Order No.: 21G0309  
Order Name: Baseline Stormwater  
Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 7 sample(s) on 07/12/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.  
ADHS License AZ0066

Elizabeth Kasik  
Laboratory Director

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**Order: Baseline Stormwater Monitoring**

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collection Date/Time</b>
21G0309-01	BC2-071021	Storm Water	07/10/2021 2000
21G0309-02	DC3-071021	Storm Water	07/10/2021 2100
21G0309-03	D2-071021	Storm Water	07/10/2021 2100
21G0309-04	D12-071021	Storm Water	07/10/2021 2100
21G0309-05	D11-071021	Storm Water	07/10/2021 2100
21G0309-06	D31-071021	Storm Water	07/10/2021 2100
21G0309-07	D32-071021	Storm Water	07/10/2021 2100

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**Case Narrative**

- D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H3 Sample was received and/or analysis requested past holding time.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- Q9 Insufficient sample received to meet method QC requirements.
- R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-01

**Client Sample ID:** BC2-071021  
**Collection Date/Time:** 07/10/2021 2000  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	210	22		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	5400			mg/L	1	07/16/2021 1300	07/22/2021 1645	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	200			mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	0.97	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.090	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
Calcium	77	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1136	MH
Magnesium	4.7	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
Potassium	10	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
Silica	20	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1456	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	4.00	D5	mg/L	100	07/20/2021 1355	07/26/2021 1315	CR
Antimony	0.00070	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Arsenic	0.040	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Barium	0.21	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Beryllium	ND	0.025	D5	mg/L	100	07/20/2021 1355	07/26/2021 1315	CR
Cadmium	0.00031	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Cobalt	0.0041	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Copper	0.0088	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Lead	0.0021	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Manganese	4.0	0.025		mg/L	100	07/20/2021 1355	07/26/2021 1315	CR
Molybdenum	0.014	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Nickel	0.0040	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Selenium	0.00048	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Thallium	0.000057	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1709	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-01

**Client Sample ID:** BC2-071021  
**Collection Date/Time:** 07/10/2021 2000  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1353	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.3		H5	-	1	07/16/2021 1430	07/16/2021 1440	CWB
Temperature (°C)	22		H5	-	1	07/16/2021 1430	07/16/2021 1440	CWB
<b>Turbidity-E180.1</b>								
Turbidity	36000	200	H3	NTU	2000	07/14/2021 1430	07/14/2021 1530	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.42	0.50	E4	mg/L	1	07/16/2021 1300	07/22/2021 1646	MH
Calcium	1600	20		mg/L	1	07/16/2021 1300	07/22/2021 1645	MH
Iron	630	30		mg/L	20	07/16/2021 1300	07/23/2021 1316	MH
Magnesium	320	15		mg/L	1	07/16/2021 1300	07/22/2021 1645	MH
Potassium	170	25		mg/L	1	07/16/2021 1300	07/22/2021 1645	MH
Silica	550	20		mg/L	20	07/16/2021 1300	07/23/2021 1316	MH
Sodium	ND	25	D5	mg/L	1	07/16/2021 1300	07/22/2021 1645	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	100	8.00		mg/L	200	07/19/2021 1000	07/23/2021 1243	CR
Antimony	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Arsenic	0.057	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Barium	2.1	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Beryllium	0.0095	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Cadmium	0.013	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Chromium	0.041	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Cobalt	0.0565	0.00250		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Copper	0.80	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Lead	0.90	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Manganese	10	0.025		mg/L	100	07/19/2021 1000	07/23/2021 1130	CR
Molybdenum	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Nickel	0.061	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Selenium	0.15	0.025		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Silver	0.0024	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Thallium	0.0014	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Uranium	0.0032	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
Zinc	1.6	0.40		mg/L	10	07/19/2021 1000	07/23/2021 1304	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1429	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-01

**Client Sample ID:** BC2-071021  
**Collection Date/Time:** 07/10/2021 2000  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	3.0	1.0		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
Fluoride	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
Nitrogen, Nitrate (As N)	0.56	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
Nitrogen, Nitrite (As N)	0.41	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
Sulfate	5.8	5.0		mg/L	1	07/12/2021 1413	07/12/2021 1606	JG
<b>Calculation-Ion Balance</b>								
Anion	26.8			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation	4.63			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation/Anion, % Difference	70.5			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	200	10		mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	1300	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Total (As CaCO3)	1300	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	600	0.10		µmhos/cm	1	07/26/2021 1530	07/26/2021 1600	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	800	20		mg/L	1	07/14/2021 0851	07/16/2021 0910	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	52000	10		mg/L	1	07/13/2021 0826	07/14/2021 0845	WM
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-01

**Client Sample ID:** BC2-071021  
**Collection Date/Time:** 07/10/2021 2000  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	1.5	0.50		mg/L	1	07/14/2021 0800	07/14/2021 1340	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	20	10		mg/L	5	07/21/2021 1140	07/21/2021 1504	WM

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-02

**Client Sample ID:** DC3-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	170	22		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	3800			mg/L	1	07/16/2021 1300	07/22/2021 1649	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	120			mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	2.4	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.081	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
Calcium	60	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1140	MH
Magnesium	4.4	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
Potassium	8.7	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
Silica	19	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1504	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	4.00	D5	mg/L	100	07/20/2021 1355	07/26/2021 1318	CR
Antimony	0.0014	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Arsenic	0.034	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Barium	0.17	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Beryllium	ND	0.025	D5	mg/L	100	07/20/2021 1355	07/26/2021 1318	CR
Cadmium	0.00031	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Cobalt	0.0038	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Copper	0.019	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Lead	0.0028	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Manganese	3.0	0.025		mg/L	100	07/20/2021 1355	07/26/2021 1318	CR
Molybdenum	0.021	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Nickel	0.0043	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Selenium	0.00049	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Thallium	0.000055	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1713	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-02

**Client Sample ID:** DC3-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1355	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.2		H5	-	1	07/16/2021 1430	07/16/2021 1455	CWB
Temperature (°C)	23		H5	-	1	07/16/2021 1430	07/16/2021 1455	CWB
<b>Turbidity-E180.1</b>								
Turbidity	52000	200	H3	NTU	2000	07/14/2021 1430	07/14/2021 1530	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.36	0.50	E4	mg/L	1	07/16/2021 1300	07/22/2021 1650	MH
Calcium	1100	20		mg/L	1	07/16/2021 1300	07/22/2021 1649	MH
Iron	630	30		mg/L	20	07/16/2021 1300	07/23/2021 1308	MH
Magnesium	270	15		mg/L	1	07/16/2021 1300	07/22/2021 1649	MH
Potassium	140	25		mg/L	1	07/16/2021 1300	07/22/2021 1649	MH
Silica	680	20		mg/L	20	07/16/2021 1300	07/23/2021 1309	MH
Sodium	ND	25	D5	mg/L	1	07/16/2021 1300	07/22/2021 1649	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	90.8	8.00		mg/L	200	07/19/2021 1000	07/23/2021 1246	CR
Antimony	ND	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Arsenic	0.044	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Barium	1.7	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Beryllium	0.0076	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Cadmium	0.0091	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Chromium	0.033	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Cobalt	0.0439	0.00250		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Copper	0.63	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Lead	0.68	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Manganese	7.3	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Molybdenum	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Nickel	0.047	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Selenium	0.11	0.025		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Silver	0.0019	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Thallium	0.00093	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Uranium	0.0022	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
Zinc	1.3	0.40		mg/L	10	07/19/2021 1000	07/23/2021 1308	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1440	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-02

**Client Sample ID:** DC3-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	3.5	1.0		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
Fluoride	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
Nitrogen, Nitrate (As N)	2.0	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
Nitrogen, Nitrite (As N)	0.37	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
Sulfate	6.3	5.0		mg/L	1	07/12/2021 1413	07/12/2021 1624	JG
<b>Calculation-Ion Balance</b>								
Anion	28.9			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation	3.69			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation/Anion, % Difference	77.3			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	110	10		mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	1400	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
Alkalinity, Total (As CaCO3)	1400	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	500	0.10		µmhos/cm	1	07/26/2021 1530	07/26/2021 1600	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	640	20		mg/L	1	07/14/2021 0851	07/16/2021 0910	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	37000	10		mg/L	1	07/13/2021 0826	07/14/2021 0845	WM
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-02

**Client Sample ID:** DC3-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Prep Date</b>	<b>Analysis Date</b>	<b>Analyst</b>
Nitrogen, Ammonia (As N)	1.7	0.50		mg/L	1	07/14/2021 0800	07/14/2021 1340	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	19	10		mg/L	5	07/21/2021 1140	07/21/2021 1504	WM

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-03

**Client Sample ID:** D2-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	66	22		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	650			mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	51			mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	0.17	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.055	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1509	MH
Calcium	26	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1144	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
Potassium	6.2	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
Silica	5.3	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1508	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1322	CR
Antimony	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Arsenic	0.0022	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Barium	0.044	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1322	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Chromium	0.00054	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Cobalt	0.0038	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Copper	0.013	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Manganese	0.75	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Molybdenum	0.0052	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Nickel	0.0017	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Selenium	ND	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1716	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-03

**Client Sample ID:** D2-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1358	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.1		H5	-	1	07/16/2021 1430	07/16/2021 1456	CWB
Temperature (°C)	22		H5	-	1	07/16/2021 1430	07/16/2021 1456	CWB
<b>Turbidity-E180.1</b>								
Turbidity	2600	10	H3	NTU	100	07/14/2021 1430	07/14/2021 1530	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.061	0.10	E4	mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
Calcium	140	4.0		mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
Iron	170	6.0		mg/L	20	07/16/2021 1300	07/23/2021 1312	MH
Magnesium	73	3.0		mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
Potassium	71	5.0		mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
Silica	150	4.0		mg/L	20	07/16/2021 1300	07/23/2021 1312	MH
Sodium	ND	5.0		mg/L	1	07/16/2021 1300	07/22/2021 1653	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	96.9	8.00		mg/L	200	07/19/2021 1000	07/23/2021 1253	CR
Antimony	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Arsenic	0.022	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Barium	0.93	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Beryllium	0.0097	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Cadmium	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Chromium	0.040	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Cobalt	0.0788	0.00250		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Copper	0.80	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Lead	0.16	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Manganese	5.4	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Molybdenum	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Nickel	0.049	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Selenium	0.19	0.025		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Silver	0.00090	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Thallium	0.0022	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Uranium	0.0086	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
Zinc	0.64	0.40		mg/L	10	07/19/2021 1000	07/23/2021 1323	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	0.00037	0.0010	E4	mg/L	1	07/15/2021 1145	07/15/2021 1955	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-03

**Client Sample ID:** D2-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.3	1.0		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
Fluoride	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
Nitrogen, Nitrite (As N)	0.17	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
Sulfate	ND	5.0		mg/L	1	07/12/2021 1413	07/12/2021 1643	JG	
<b>Calculation-Ion Balance</b>									
Anion	3.23			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK	
Cation	1.48			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK	
Cation/Anion, % Difference	37.1			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK	
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	51	5.0		mg/L	10	07/19/2021 1600	07/20/2021 1313	JG	
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	150	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ	
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ	
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ	
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ	
Alkalinity, Total (As CaCO3)	150	2.0		mg/L	1	07/22/2021 1300	07/22/2021 1715	EJ	
<b>Specific Conductance-SM2510 B</b>									
Conductivity	280	0.10		µmhos/cm	1	07/26/2021 1530	07/26/2021 1600	CWB	
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	250	20		mg/L	1	07/14/2021 0851	07/20/2021 1311	JG	
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	6300	10		mg/L	1	07/13/2021 0826	07/14/2021 0845	WM	
<b>Ammonia as N-SM4500-NH3 B,C</b>									

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-03

**Client Sample ID:** D2-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	1.8	0.50		mg/L	1	07/14/2021 0800	07/14/2021 1340	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	6.9	2.0		mg/L	1	07/21/2021 1140	07/21/2021 1504	WM

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-04

**Client Sample ID:** D12-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	140	22		mg/L	1	07/20/2021 1355	07/22/2021 1512	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	5600			mg/L	1	07/16/2021 1300	07/22/2021 1657	MH
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.12	0.10		mg/L	1	07/20/2021 1355	07/22/2021 1513	MH
Calcium	46	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1512	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1206	MH
Magnesium	6.7	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1512	MH
Potassium	10	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1512	MH
Silica	16	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1513	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1512	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1325	CR
Antimony	0.0016	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Arsenic	0.0075	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Barium	0.050	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1325	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Cobalt	0.0023	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Copper	0.19	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Manganese	0.83	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Molybdenum	0.11	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Nickel	0.0026	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Selenium	0.0014	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1720	CR
<b>CVAA Dissolved Mercury-E 245.1</b>								
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1400	MH
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.44	0.50	E4	mg/L	1	07/16/2021 1300	07/22/2021 1657	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-04

**Client Sample ID:** D12-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Calcium	1700	20		mg/L	1	07/16/2021 1300	07/22/2021 1657	MH
Iron	710	30		mg/L	20	07/16/2021 1300	07/23/2021 1319	MH
Magnesium	350	15		mg/L	1	07/16/2021 1300	07/22/2021 1657	MH
Potassium	180	25		mg/L	1	07/16/2021 1300	07/22/2021 1657	MH
Silica	650	20		mg/L	20	07/16/2021 1300	07/23/2021 1320	MH
Sodium	ND	25	D5	mg/L	1	07/16/2021 1300	07/22/2021 1657	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	84.8	4.00		mg/L	100	07/19/2021 1000	07/23/2021 1137	CR
Antimony	ND	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Arsenic	0.024	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Barium	0.64	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Beryllium	0.0087	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Cadmium	0.010	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Chromium	0.062	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Cobalt	0.0494	0.00250		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Copper	7.6	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Lead	0.19	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Manganese	5.5	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Molybdenum	0.024	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Nickel	0.049	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Selenium	0.12	0.025		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Silver	0.0079	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Thallium	0.0016	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Uranium	0.010	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
Zinc	2.0	0.40		mg/L	10	07/19/2021 1000	07/23/2021 1311	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1442	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-05

**Client Sample ID:** D11-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	67	22		mg/L	1	07/20/2021 1355	07/22/2021 1412	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	7500			mg/L	1	07/16/2021 1300	07/22/2021 1728	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	110			mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	0.12	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.061	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1413	MH
Calcium	27	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1412	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1117	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1412	MH
Potassium	5.5	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1412	MH
Silica	11	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1413	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1412	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1329	CR
Antimony	0.0010	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Arsenic	0.0023	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Barium	0.032	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1329	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Cobalt	0.00064	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Copper	0.10	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Manganese	0.32	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Molybdenum	0.029	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Nickel	0.0011	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Selenium	0.00091	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1723	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-05

**Client Sample ID:** D11-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1403	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.5		H5	-	1	07/16/2021 1430	07/16/2021 1458	CWB
Temperature (°C)	23		H5	-	1	07/16/2021 1430	07/16/2021 1458	CWB
<b>Turbidity-E180.1</b>								
Turbidity	7400	200	H3	NTU	2000	07/14/2021 1430	07/14/2021 1530	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.29	0.50	E4	mg/L	1	07/16/2021 1300	07/22/2021 1729	MH
Calcium	2400	20		mg/L	1	07/16/2021 1300	07/22/2021 1728	MH
Iron	700	30		mg/L	20	07/16/2021 1300	07/23/2021 1323	MH
Magnesium	360	15		mg/L	1	07/16/2021 1300	07/22/2021 1728	MH
Potassium	140	25		mg/L	1	07/16/2021 1300	07/22/2021 1728	MH
Silica	660	20		mg/L	20	07/16/2021 1300	07/23/2021 1324	MH
Sodium	ND	25	D5	mg/L	1	07/16/2021 1300	07/22/2021 1728	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	100	8.00		mg/L	200	07/19/2021 1000	07/23/2021 1250	CR
Antimony	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Arsenic	0.028	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Barium	0.78	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Beryllium	0.010	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Cadmium	0.028	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Chromium	0.080	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Cobalt	0.0498	0.00250		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Copper	16	0.050		mg/L	100	07/19/2021 1000	07/23/2021 1140	CR
Lead	0.32	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Manganese	5.0	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Molybdenum	0.0056	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Nickel	0.056	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Selenium	0.14	0.025		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Silver	0.016	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Thallium	0.0014	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Uranium	0.016	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
Zinc	6.8	0.40		mg/L	10	07/19/2021 1000	07/23/2021 1316	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1445	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-05

**Client Sample ID:** D11-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	1.1	1.0		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
Fluoride	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
Nitrogen, Nitrite (As N)	0.12	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
Sulfate	5.3	5.0		mg/L	1	07/12/2021 1413	07/12/2021 1701	JG
<b>Calculation-Ion Balance</b>								
Anion	52.4			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation	1.50			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation/Anion, % Difference	94.4			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	110	10		mg/L	20	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	2600	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Total (As CaCO3)	2600	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
<b>Specific Conductance-SM2510 B</b>								
Conductivity	260	0.10		µmhos/cm	1	07/26/2021 1530	07/26/2021 1600	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	920	20		mg/L	1	07/14/2021 0851	07/16/2021 0920	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	11000	10		mg/L	1	07/13/2021 0826	07/14/2021 0845	WM
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-05

**Client Sample ID:** D11-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	0.76	0.50		mg/L	1	07/14/2021 0800	07/14/2021 1340	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	9.3	2.0		mg/L	1	07/21/2021 1140	07/21/2021 1504	WM

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-06

**Client Sample ID:** D31-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	190	22		mg/L	1	07/20/2021 1355	07/22/2021 1516	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	700			mg/L	1	07/16/2021 1300	07/22/2021 1732	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	66			mg/L	10	07/14/2021 1630	07/15/2021 1320	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	3.3	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.073	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1517	MH
Calcium	61	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1516	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1210	MH
Magnesium	8.1	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1516	MH
Potassium	5.2	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1516	MH
Silica	5.6	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1517	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1516	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1339	CR
Antimony	0.00094	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Arsenic	0.0022	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Barium	0.032	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1339	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Cobalt	0.00038	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Copper	0.0036	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Manganese	0.074	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Molybdenum	0.028	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Nickel	0.0015	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Selenium	0.0015	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Silver	0.00010	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Thallium	0.000038	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1737	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-06

**Client Sample ID:** D31-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1406	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.7		H5	-	1	07/16/2021 1430	07/16/2021 1459	CWB
Temperature (°C)	23		H5	-	1	07/16/2021 1430	07/16/2021 1459	CWB
<b>Turbidity-E180.1</b>								
Turbidity	52000	200	H3	NTU	2000	07/14/2021 1430	07/14/2021 1530	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.080	0.10	E4	mg/L	1	07/16/2021 1300	07/22/2021 1733	MH
Calcium	250	4.0		mg/L	1	07/16/2021 1300	07/22/2021 1732	MH
Iron	1.6	0.30		mg/L	1	07/16/2021 1300	07/23/2021 1327	MH
Magnesium	19	3.0		mg/L	1	07/16/2021 1300	07/22/2021 1732	MH
Potassium	8.3	5.0		mg/L	1	07/16/2021 1300	07/22/2021 1732	MH
Silica	18	0.20		mg/L	1	07/16/2021 1300	07/22/2021 1733	MH
Sodium	ND	5.0		mg/L	1	07/16/2021 1300	07/22/2021 1732	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	1.60	0.400		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Antimony	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Arsenic	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Barium	0.044	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Beryllium	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Cadmium	ND	0.0025	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Chromium	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Cobalt	ND	0.00250	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Copper	0.0079	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Lead	0.013	0.0050		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Manganese	0.16	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Molybdenum	0.030	0.0025		mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Nickel	ND	0.0050	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Selenium	0.0078	0.025	E4	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Silver	ND	0.0050	E8	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Thallium	ND	0.0050	E8	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Uranium	0.00083	0.0050	E4	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
Zinc	ND	0.40	D5	mg/L	10	07/19/2021 1000	07/23/2021 1320	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.0010	E8	mg/L	1	07/15/2021 1145	07/15/2021 1958	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-06

**Client Sample ID:** D31-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	4.7	1.0		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
Fluoride	0.57	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
Nitrogen, Nitrate (As N)	3.1	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
Nitrogen, Nitrite (As N)	0.18	0.10		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/12/2021 1413	07/12/2021 1720	JG
Sulfate	170	50		mg/L	10	07/12/2021 1413	07/19/2021 1743	JG
<b>Calculation-Ion Balance</b>								
Anion	1020			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation	3.85			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
Cation/Anion, % Difference	99.3			meq/L	1	07/29/2021 1232	07/29/2021 1233	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	63	5.0		mg/L	10	07/14/2021 1630	07/15/2021 1320	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	51000	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
Alkalinity, Total (As CaCO3)	51000	2.0		mg/L	1	07/23/2021 0825	07/23/2021 1710	JG
<b>Specific Conductance-SM2510 B</b>								
Conductivity	570	0.10		µmhos/cm	1	07/26/2021 1530	07/26/2021 1600	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	480	20		mg/L	1	07/14/2021 0851	07/22/2021 0931	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	51000	10		mg/L	1	07/13/2021 0826	07/14/2021 0845	WM
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-06

**Client Sample ID:** D31-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/21/2021 1200	07/21/2021 1700	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	7.4	2.0		mg/L	1	07/21/2021 1140	07/21/2021 1504	WM

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-07

**Client Sample ID:** D32-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	190	22		mg/L	1	07/20/2021 1355	07/22/2021 1520	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	26000			mg/L	10	07/21/2021 1200	07/26/2021 1441	MH
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.080	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1521	MH
Calcium	65	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1520	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1214	MH
Magnesium	5.9	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1520	MH
Potassium	5.4	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1520	MH
Silica	6.7	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1521	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1520	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1342	CR
Antimony	0.0010	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Arsenic	0.0030	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Barium	0.059	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1342	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Cobalt	0.00057	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Copper	0.020	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Manganese	0.068	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Molybdenum	0.025	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Nickel	0.0027	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Selenium	0.0011	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Thallium	0.000048	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1741	CR
<b>CVAA Dissolved Mercury-E 245.1</b>								
Mercury	ND	0.0050	E8	mg/L	1	07/23/2021 0945	07/23/2021 1408	MH
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.38	1.0	E4	mg/L	1	07/21/2021 1200	07/26/2021 1212	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Lab Sample ID:** 21G0309-07

**Client Sample ID:** D32-071021  
**Collection Date/Time:** 07/10/2021 2100  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
Calcium	9800	400		mg/L	10	07/21/2021 1200	07/26/2021 1441	MH	
Iron	97	30		mg/L	10	07/21/2021 1200	07/26/2021 1441	MH	
Magnesium	300	30		mg/L	1	07/21/2021 1200	07/26/2021 1212	MH	
Potassium	ND	50	D5	mg/L	1	07/21/2021 1200	07/26/2021 1212	MH	
Silica	610	2.0		mg/L	1	07/21/2021 1200	07/26/2021 1212	MH	
Sodium	ND	50	D5	mg/L	1	07/21/2021 1200	07/26/2021 1212	MH	
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	120	8.00		mg/L	20	07/23/2021 0930	07/27/2021 1538	CR	
Antimony	ND	0.050	D5	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Arsenic	0.085	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Barium	1.0	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Beryllium	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Cadmium	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Chromium	0.22	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Cobalt	0.0535	0.0250		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Copper	0.95	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Lead	0.70	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Manganese	8.9	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Molybdenum	0.030	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Nickel	0.18	0.050		mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Selenium	0.093	0.25	E4	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Silver	ND	0.050	E8	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Thallium	0.0051	0.050	E4	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Uranium	0.013	0.050	E4	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
Zinc	ND	4.0	D5	mg/L	10	07/23/2021 0930	07/26/2021 1839	CR	
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.010	E8	mg/L	1	07/23/2021 0945	07/23/2021 1447	MH	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107178 - E245.1</b>										
<b>Blank (2107178-BLK1)</b>				Prepared & Analyzed: 07/15/2021						
Mercury	ND	0.0010	mg/L							
<b>LCS (2107178-BS1)</b>				Prepared & Analyzed: 07/15/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115			
<b>LCS Dup (2107178-BSD1)</b>				Prepared & Analyzed: 07/15/2021						
Mercury	0.0049	0.0010	mg/L	0.005000		99	85-115	0.8	20	
<b>Matrix Spike (2107178-MS1)</b>				<b>Source: 21G0311-01</b>		Prepared & Analyzed: 07/15/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130			
<b>Matrix Spike Dup (2107178-MSD1)</b>				<b>Source: 21G0311-01</b>		Prepared & Analyzed: 07/15/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130	0.05	20	
<b>Batch 2107202 - E200.7 (4.4)</b>										
<b>Blank (2107202-BLK1)</b>				Prepared: 07/16/2021 Analyzed: 07/19/2021						
Boron	0.024	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	0.021	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
<b>LCS (2107202-BS1)</b>				Prepared: 07/16/2021 Analyzed: 07/19/2021						
Boron	1.1	0.10	mg/L	1.000		107	85-115			
Calcium	11	4.0	mg/L	10.00		114	85-115			
Iron	1.0	0.30	mg/L	1.000		103	85-115			
Magnesium	11	3.0	mg/L	10.00		114	85-115			
Potassium	11	5.0	mg/L	10.00		111	85-115			
Sodium	11	5.0	mg/L	10.00		112	85-115			
<b>LCS (2107202-BS2)</b>				Prepared: 07/16/2021 Analyzed: 07/19/2021						
Silica	10	0.20	mg/L	10.00		101	85-115			
<b>LCS Dup (2107202-BSD1)</b>				Prepared: 07/16/2021 Analyzed: 07/19/2021						
Boron	1.0	0.10	mg/L	1.000		104	85-115	3	20	
Calcium	11	4.0	mg/L	10.00		113	85-115	0.5	20	
Iron	1.0	0.30	mg/L	1.000		103	85-115	0.04	20	
Magnesium	11	3.0	mg/L	10.00		113	85-115	0.9	20	
Potassium	11	5.0	mg/L	10.00		111	85-115	0.5	20	
Sodium	11	5.0	mg/L	10.00		107	85-115	4	20	
<b>LCS Dup (2107202-BSD2)</b>				Prepared: 07/16/2021 Analyzed: 07/19/2021						
Silica	10	0.20	mg/L	10.00		103	85-115	2	20	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107202 - E200.7 (4.4)</b>										
<b>Matrix Spike (2107202-MS1)</b>			<b>Source: 21G0269-02</b>		Prepared: 07/16/2021 Analyzed: 07/19/2021					
Boron	1.1	0.10	mg/L	1.000	0.10	100	70-130			
Calcium	23	4.0	mg/L	10.00	14	91	70-130			
Iron	2.0	0.30	mg/L	1.000	0.79	116	70-130			
Magnesium	13	3.0	mg/L	10.00	2.1	107	70-130			
Potassium	14	5.0	mg/L	10.00	2.8	109	70-130			
Sodium	18	5.0	mg/L	10.00	7.6	104	70-130			
<b>Matrix Spike (2107202-MS2)</b>			<b>Source: 21G0283-01</b>		Prepared: 07/16/2021 Analyzed: 07/19/2021					
Boron	1.4	0.10	mg/L	1.000	0.36	100	70-130			
Calcium	110	4.0	mg/L	10.00	100	83	70-130			
Iron	1.4	0.30	mg/L	1.000	0.28	110	70-130			
Magnesium	24	3.0	mg/L	10.00	13	108	70-130			
Potassium	25	5.0	mg/L	10.00	14	110	70-130			
Sodium	100	5.0	mg/L	10.00	94	96	70-130			
<b>Matrix Spike (2107202-MS3)</b>			<b>Source: 21G0283-01</b>		Prepared: 07/16/2021 Analyzed: 07/19/2021					
Silica	35	0.20	mg/L	10.00	26	93	70-130			
<b>Matrix Spike (2107202-MS4)</b>			<b>Source: 21G0397-03</b>		Prepared: 07/16/2021 Analyzed: 07/19/2021					
Silica	290	10	mg/L	10.00	290	8	70-130			M3
<b>Batch 2107203 - E 200.7 (4.4)</b>										
<b>Blank (2107203-BLK1)</b>			Prepared & Analyzed: 07/22/2021							
Boron	0.042	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
<b>LCS (2107203-BS1)</b>			Prepared & Analyzed: 07/22/2021							
Boron	0.99	0.10	mg/L	1.000		99	85-115			
Calcium	10	4.0	mg/L	10.00		101	85-115			
Iron	0.95	0.30	mg/L	1.000		95	85-115			
Magnesium	9.9	3.0	mg/L	10.00		99	85-115			
Potassium	10	5.0	mg/L	10.00		101	85-115			
Sodium	10	5.0	mg/L	10.00		103	85-115			
<b>LCS (2107203-BS2)</b>			Prepared & Analyzed: 07/22/2021							
Silica	10	0.20	mg/L	10.00		100	85-115			
<b>LCS Dup (2107203-BSD1)</b>			Prepared & Analyzed: 07/22/2021							
Boron	0.97	0.10	mg/L	1.000		97	85-115	2	20	
Calcium	10	4.0	mg/L	10.00		101	85-115	0.7	20	
Iron	0.98	0.30	mg/L	1.000		98	85-115	3	20	
Magnesium	9.9	3.0	mg/L	10.00		99	85-115	0.8	20	
Potassium	10	5.0	mg/L	10.00		100	85-115	1	20	
Sodium	10	5.0	mg/L	10.00		102	85-115	0.8	20	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107203 - E 200.7 (4.4)</b>										
<b>LCS Dup (2107203-BSD2)</b>				Prepared & Analyzed: 07/22/2021						
Silica	9.7	0.20	mg/L	10.00		97	85-115	3	20	
<b>Matrix Spike (2107203-MS1)</b>				<b>Source: 21G0237-04</b>		Prepared & Analyzed: 07/22/2021				
Boron	1.1	0.10	mg/L	1.000	0.053	102	70-130			
Calcium	28	4.0	mg/L	10.00	17	106	70-130			
Iron	1.1	0.30	mg/L	1.000	0.0036	105	70-130			
Magnesium	12	3.0	mg/L	10.00	1.7	104	70-130			
Potassium	14	5.0	mg/L	10.00	3.3	107	70-130			
Sodium	12	5.0	mg/L	10.00	ND	116	70-130			
<b>Matrix Spike (2107203-MS2)</b>				<b>Source: 21G0309-05</b>		Prepared & Analyzed: 07/22/2021				
Boron	1.0	0.10	mg/L	1.000	0.061	98	70-130			
Calcium	35	4.0	mg/L	10.00	27	85	70-130			
Iron	1.0	0.30	mg/L	1.000	ND	100	70-130			
Magnesium	13	3.0	mg/L	10.00	2.9	99	70-130			
Potassium	15	5.0	mg/L	10.00	5.5	97	70-130			
Sodium	12	5.0	mg/L	10.00	1.3	103	70-130			
<b>Matrix Spike (2107203-MS3)</b>				<b>Source: 21G0237-04</b>		Prepared & Analyzed: 07/22/2021				
Silica	12	0.20	mg/L	10.00	2.5	98	70-130			
<b>Matrix Spike (2107203-MS4)</b>				<b>Source: 21G0309-05</b>		Prepared & Analyzed: 07/22/2021				
Silica	20	0.20	mg/L	10.00	11	94	70-130			
<b>Batch 2107209 - E 200.8 (5.4)</b>										
<b>Blank (2107209-BLK1)</b>				Prepared: 07/19/2021 Analyzed: 07/26/2021						
Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.00015	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107209 - E 200.8 (5.4)**

<b>LCS (2107209-BS1)</b>				Prepared: 07/19/2021 Analyzed: 07/26/2021						
Aluminum	0.102	0.0400	mg/L	0.1000		102	85-115			
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		101	85-115			
Barium	0.050	0.00050	mg/L	0.05000		99	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		99	85-115			
Chromium	0.051	0.00050	mg/L	0.05000		103	85-115			
Cobalt	0.050	0.00025	mg/L	0.05000		101	85-115			
Copper	0.050	0.00050	mg/L	0.05000		99	85-115			
Lead	0.050	0.00050	mg/L	0.05000		100	85-115			
Manganese	0.050	0.00025	mg/L	0.05000		101	85-115			
Molybdenum	0.051	0.00025	mg/L	0.05000		102	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115			
Selenium	0.051	0.0025	mg/L	0.05000		103	85-115			
Silver	0.050	0.00050	mg/L	0.05000		100	85-115			
Thallium	0.049	0.00050	mg/L	0.05000		99	85-115			
Zinc	0.10	0.040	mg/L	0.1000		103	85-115			

<b>LCS Dup (2107209-BSD1)</b>				Prepared: 07/19/2021 Analyzed: 07/26/2021						
Aluminum	0.102	0.0400	mg/L	0.1000		102	85-115	0.04	20	
Antimony	0.050	0.00050	mg/L	0.05000		99	85-115	1	20	
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	0.7	20	
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115	0.4	20	
Cadmium	0.050	0.00025	mg/L	0.05000		100	85-115	0.5	20	
Chromium	0.051	0.00050	mg/L	0.05000		102	85-115	0.2	20	
Cobalt	0.050	0.00025	mg/L	0.05000		101	85-115	0.3	20	
Copper	0.050	0.00050	mg/L	0.05000		99	85-115	0.02	20	
Lead	0.050	0.00050	mg/L	0.05000		100	85-115	0.3	20	
Manganese	0.050	0.00025	mg/L	0.05000		100	85-115	0.8	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115	3	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Selenium	0.050	0.0025	mg/L	0.05000		101	85-115	2	20	
Silver	0.050	0.00050	mg/L	0.05000		100	85-115	0.3	20	
Thallium	0.050	0.00050	mg/L	0.05000		100	85-115	0.7	20	
Zinc	0.10	0.040	mg/L	0.1000		101	85-115	2	20	

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107209 - E 200.8 (5.4)</b>										
<b>Matrix Spike (2107209-MS1)</b>		<b>Source: 21G0384-01</b>			Prepared: 07/19/2021 Analyzed: 07/26/2021					
Aluminum	ND	0.400	mg/L	0.1000	ND		70-130			M2
Antimony	0.063	0.00050	mg/L	0.05000	0.000098	125	70-130			
Arsenic	0.065	0.00050	mg/L	0.05000	0.0015	127	70-130			
Barium	0.16	0.00050	mg/L	0.05000	0.10	120	70-130			
Beryllium	0.044	0.0025	mg/L	0.05000	ND	87	70-130			
Cadmium	0.058	0.00025	mg/L	0.05000	ND	117	70-130			
Chromium	0.059	0.00050	mg/L	0.05000	0.00025	118	70-130			
Cobalt	0.057	0.00025	mg/L	0.05000	0.000087	113	70-130			
Copper	0.054	0.00050	mg/L	0.05000	0.0015	104	70-130			
Lead	0.061	0.00050	mg/L	0.05000	0.00017	121	70-130			
Manganese	0.086	0.00025	mg/L	0.05000	0.028	117	70-130			
Molybdenum	0.062	0.00025	mg/L	0.05000	0.0019	120	70-130			
Nickel	0.054	0.00050	mg/L	0.05000	0.0012	106	70-130			
Selenium	0.067	0.0025	mg/L	0.05000	0.0015	131	70-130			M6
Silver	0.050	0.00050	mg/L	0.05000	0.00018	101	70-130			
Thallium	0.061	0.00050	mg/L	0.05000	ND	122	70-130			
Zinc	0.90	0.40	mg/L	0.1000	0.87	29	70-130			M2
<b>Matrix Spike (2107209-MS2)</b>		<b>Source: 21G0388-01</b>			Prepared: 07/19/2021 Analyzed: 07/26/2021					
Aluminum	0.133	0.0400	mg/L	0.1000	0.0237	110	70-130			
Antimony	0.064	0.00050	mg/L	0.05000	0.0021	124	70-130			
Arsenic	0.067	0.00050	mg/L	0.05000	0.0027	129	70-130			
Barium	0.13	0.00050	mg/L	0.05000	0.068	122	70-130			
Beryllium	0.062	0.00025	mg/L	0.05000	0.000018	124	70-130			
Cadmium	0.063	0.00025	mg/L	0.05000	ND	125	70-130			
Chromium	0.060	0.00050	mg/L	0.05000	0.00037	119	70-130			
Cobalt	0.060	0.00025	mg/L	0.05000	0.00095	117	70-130			
Copper	0.066	0.00050	mg/L	0.05000	0.0087	115	70-130			
Lead	0.063	0.00050	mg/L	0.05000	0.00085	124	70-130			
Manganese	0.38	0.00025	mg/L	0.05000	0.32	119	70-130			
Molybdenum	0.065	0.00025	mg/L	0.05000	0.0030	123	70-130			
Nickel	0.058	0.00050	mg/L	0.05000	0.0014	113	70-130			
Selenium	0.068	0.0025	mg/L	0.05000	0.00029	136	70-130			M6
Silver	0.058	0.00050	mg/L	0.05000	0.00032	115	70-130			
Thallium	0.062	0.00050	mg/L	0.05000	ND	124	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.0028	120	70-130			

**Batch 2107225 - E200.8 (5.4)**

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107225 - E200.8 (5.4)**

**Blank (2107225-BLK1)**

Prepared: 07/19/2021 Analyzed: 07/20/2021

Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	0.000055	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

**LCS (2107225-BS1)**

Prepared: 07/19/2021 Analyzed: 07/20/2021

Aluminum	0.103	0.0400	mg/L	0.1000		103	85-115			
Antimony	0.055	0.00050	mg/L	0.05000		110	85-115			
Arsenic	0.054	0.00050	mg/L	0.05000		109	85-115			
Barium	0.051	0.00050	mg/L	0.05000		101	85-115			
Beryllium	0.055	0.00025	mg/L	0.05000		110	85-115			
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115			
Chromium	0.050	0.00050	mg/L	0.05000		100	85-115			
Cobalt	0.0479	0.000250	mg/L	0.05000		96	85-115			
Copper	0.049	0.00050	mg/L	0.05000		99	85-115			
Lead	0.049	0.00050	mg/L	0.05000		98	85-115			
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115			
Selenium	0.051	0.0025	mg/L	0.05000		101	85-115			
Silver	0.050	0.00050	mg/L	0.05000		100	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Uranium	0.046	0.00050	mg/L	0.05000		93	85-115			
Zinc	0.11	0.040	mg/L	0.1000		109	85-115			

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2107225 - E200.8 (5.4)

LCS Dup (2107225-BSD1)

Prepared: 07/19/2021 Analyzed: 07/20/2021

Aluminum	0.103	0.0400	mg/L	0.1000		103	85-115	0.2	20	
Antimony	0.054	0.00050	mg/L	0.05000		109	85-115	1	20	
Arsenic	0.054	0.00050	mg/L	0.05000		107	85-115	1	20	
Barium	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Beryllium	0.055	0.00025	mg/L	0.05000		110	85-115	0.02	20	
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115	0.09	20	
Chromium	0.050	0.00050	mg/L	0.05000		99	85-115	1	20	
Cobalt	0.0474	0.000250	mg/L	0.05000		95	85-115	1	20	
Copper	0.049	0.00050	mg/L	0.05000		99	85-115	0.3	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	0.1	20	
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115	0.1	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115	0.02	20	
Nickel	0.049	0.00050	mg/L	0.05000		97	85-115	1	20	
Selenium	0.051	0.0025	mg/L	0.05000		101	85-115	0.3	20	
Silver	0.050	0.00050	mg/L	0.05000		100	85-115	0.2	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.2	20	
Uranium	0.046	0.00050	mg/L	0.05000		93	85-115	0.4	20	
Zinc	0.11	0.040	mg/L	0.1000		109	85-115	0.3	20	

Matrix Spike (2107225-MS1)

Source: 21G0342-01

Prepared: 07/19/2021 Analyzed: 07/20/2021

Aluminum	0.111	0.0400	mg/L	0.1000	0.0159	95	70-130			
Antimony	0.056	0.00050	mg/L	0.05000	0.00077	110	70-130			
Arsenic	0.062	0.00050	mg/L	0.05000	0.0080	108	70-130			
Barium	0.065	0.00050	mg/L	0.05000	0.015	100	70-130			
Beryllium	0.055	0.00025	mg/L	0.05000	0.000025	110	70-130			
Cadmium	0.049	0.00025	mg/L	0.05000	ND	98	70-130			
Chromium	0.047	0.00050	mg/L	0.05000	0.00050	93	70-130			
Cobalt	0.0451	0.000250	mg/L	0.05000	0.000852	88	70-130			
Copper	0.048	0.00050	mg/L	0.05000	0.0046	87	70-130			
Lead	0.048	0.00050	mg/L	0.05000	0.00026	96	70-130			
Manganese	0.052	0.00025	mg/L	0.05000	0.0079	88	70-130			
Molybdenum	0.055	0.00025	mg/L	0.05000	0.0060	99	70-130			
Nickel	0.045	0.00050	mg/L	0.05000	0.0013	88	70-130			
Selenium	0.048	0.0025	mg/L	0.05000	0.00030	95	70-130			
Silver	0.045	0.00050	mg/L	0.05000	ND	89	70-130			
Thallium	0.047	0.00050	mg/L	0.05000	0.00027	94	70-130			
Uranium	0.049	0.00050	mg/L	0.05000	0.000090	98	70-130			
Zinc	0.19	0.040	mg/L	0.1000	0.091	104	70-130			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107225 - E200.8 (5.4)**

<b>Matrix Spike (2107225-MS2)</b>		<b>Source: 21G0344-01</b>		<b>Prepared: 07/19/2021</b>		<b>Analyzed: 07/23/2021</b>	
Aluminum	0.178	0.0400	mg/L	0.1000	0.0738	104	70-130
Antimony	0.053	0.00050	mg/L	0.05000	0.00015	105	70-130
Arsenic	0.049	0.00050	mg/L	0.05000	0.00033	97	70-130
Barium	0.060	0.00050	mg/L	0.05000	0.011	99	70-130
Beryllium	0.051	0.00025	mg/L	0.05000	ND	101	70-130
Cadmium	0.051	0.00025	mg/L	0.05000	ND	101	70-130
Chromium	0.048	0.00050	mg/L	0.05000	0.0012	94	70-130
Cobalt	0.0465	0.000250	mg/L	0.05000	0.000128	93	70-130
Copper	0.054	0.00050	mg/L	0.05000	0.0061	95	70-130
Lead	0.049	0.00050	mg/L	0.05000	0.00094	97	70-130
Manganese	0.065	0.00025	mg/L	0.05000	0.016	99	70-130
Molybdenum	0.049	0.00025	mg/L	0.05000	0.00056	97	70-130
Nickel	0.046	0.00050	mg/L	0.05000	0.00087	91	70-130
Selenium	0.053	0.0025	mg/L	0.05000	ND	106	70-130
Silver	0.047	0.00050	mg/L	0.05000	ND	94	70-130
Thallium	0.048	0.00050	mg/L	0.05000	ND	96	70-130
Uranium	0.051	0.00050	mg/L	0.05000	0.00028	102	70-130
Zinc	0.37	0.040	mg/L	0.1000	0.26	102	70-130

**Batch 2107252 - E200.7 (4.4)**

<b>Blank (2107252-BLK1)</b>				<b>Prepared: 07/21/2021</b>		<b>Analyzed: 07/23/2021</b>	
Boron	0.031	0.10	mg/L				
Calcium	ND	4.0	mg/L				
Iron	ND	0.30	mg/L				
Magnesium	ND	3.0	mg/L				
Potassium	ND	5.0	mg/L				
Silica	0.018	0.20	mg/L				
Sodium	ND	5.0	mg/L				

<b>LCS (2107252-BS1)</b>				<b>Prepared: 07/21/2021</b>		<b>Analyzed: 07/23/2021</b>	
Boron	1.0	0.10	mg/L	1.000		103	85-115
Calcium	11	4.0	mg/L	10.00		109	85-115
Iron	1.0	0.30	mg/L	1.000		100	85-115
Magnesium	11	3.0	mg/L	10.00		108	85-115
Potassium	11	5.0	mg/L	10.00		107	85-115
Sodium	11	5.0	mg/L	10.00		111	85-115

<b>LCS (2107252-BS2)</b>				<b>Prepared: 07/21/2021</b>		<b>Analyzed: 07/23/2021</b>	
Silica	9.5	0.20	mg/L	10.00		95	85-115

<b>LCS Dup (2107252-BSD1)</b>				<b>Prepared: 07/21/2021</b>		<b>Analyzed: 07/23/2021</b>			
Boron	1.0	0.10	mg/L	1.000		100	85-115	2	20
Calcium	11	4.0	mg/L	10.00		107	85-115	3	20
Iron	1.0	0.30	mg/L	1.000		101	85-115	0.2	20
Magnesium	11	3.0	mg/L	10.00		109	85-115	0.2	20
Potassium	10	5.0	mg/L	10.00		105	85-115	3	20
Sodium	11	5.0	mg/L	10.00		110	85-115	0.1	20

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0309  
**Date Received:** 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107252 - E200.7 (4.4)</b>										
<b>LCS Dup (2107252-BSD2)</b>				Prepared: 07/21/2021 Analyzed: 07/23/2021						
Silica	9.2	0.20	mg/L	10.00		92	85-115	4	20	
<b>Matrix Spike (2107252-MS1)</b>				Source: 21G0292-05		Prepared: 07/21/2021 Analyzed: 07/23/2021				
Boron	1.1	0.10	mg/L	1.000	0.14	99	70-130			
Calcium	130	4.0	mg/L	10.00	120	127	70-130			
Iron	1.1	0.30	mg/L	1.000	0.055	109	70-130			
Magnesium	28	3.0	mg/L	10.00	17	109	70-130			
Potassium	15	5.0	mg/L	10.00	4.5	108	70-130			
Sodium	110	5.0	mg/L	10.00	95	106	70-130			
<b>Matrix Spike (2107252-MS2)</b>				Source: 21G0391-01		Prepared: 07/21/2021 Analyzed: 07/23/2021				
Boron	1.4	0.10	mg/L	1.000	0.33	103	70-130			
Calcium	180	4.0	mg/L	10.00	170	120	70-130			
Iron	1.1	0.30	mg/L	1.000	0.064	100	70-130			
Magnesium	34	3.0	mg/L	10.00	22	119	70-130			
Potassium	29	5.0	mg/L	10.00	17	119	70-130			
<b>Matrix Spike (2107252-MS3)</b>				Source: 21G0292-05		Prepared: 07/21/2021 Analyzed: 07/23/2021				
Silica	44	0.20	mg/L	10.00	33	107	70-130			
<b>Batch 2107253 - E 245.1</b>										
<b>Blank (2107253-BLK1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	ND	0.0010	mg/L							
<b>LCS (2107253-BS1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		102	85-115			
<b>LCS Dup (2107253-BSD1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		101	85-115	1	20	
<b>Matrix Spike (2107253-MS1)</b>				Source: 21G0340-01		Prepared & Analyzed: 07/23/2021				
Mercury	4.8		ug/L	5.000	-0.017	96	70-130			
<b>Matrix Spike Dup (2107253-MSD1)</b>				Source: 21G0340-01		Prepared & Analyzed: 07/23/2021				
Mercury	4.7		ug/L	5.000	-0.017	95	70-130	2	20	
<b>Batch 2107254 - E245.1</b>										
<b>Blank (2107254-BLK1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	ND	0.0010	mg/L							
<b>LCS (2107254-BS1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115			
<b>LCS Dup (2107254-BSD1)</b>				Prepared & Analyzed: 07/23/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115	0.4	20	
<b>Matrix Spike (2107254-MS1)</b>				Source: 21G0309-01		Prepared & Analyzed: 07/23/2021				
Mercury	5.1		ug/L	5.000	0.17	99	70-130			
<b>Matrix Spike Dup (2107254-MSD1)</b>				Source: 21G0309-01		Prepared & Analyzed: 07/23/2021				
Mercury	5.1		ug/L	5.000	0.17	98	70-130	1	20	

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107286 - E200.8 (5.4)**

**Blank (2107286-BLK1)**

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	0.000024	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

**LCS (2107286-BS1)**

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	0.102	0.0400	mg/L	0.1000		102	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		98	85-115			
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		101	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115			
Cobalt	0.0482	0.000250	mg/L	0.05000		96	85-115			
Copper	0.048	0.00050	mg/L	0.05000		97	85-115			
Lead	0.049	0.00050	mg/L	0.05000		97	85-115			
Manganese	0.050	0.00025	mg/L	0.05000		101	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		95	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		97	85-115			
Selenium	0.055	0.0025	mg/L	0.05000		110	85-115			
Silver	0.049	0.00050	mg/L	0.05000		99	85-115			
Thallium	0.048	0.00050	mg/L	0.05000		95	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		96	85-115			
Zinc	0.11	0.040	mg/L	0.1000		108	85-115			

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2107286 - E200.8 (5.4)

LCS Dup (2107286-BSD1)

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	0.103	0.0400	mg/L	0.1000		103	85-115	1	20	
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Arsenic	0.051	0.00050	mg/L	0.05000		102	85-115	2	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	2	20	
Beryllium	0.051	0.00025	mg/L	0.05000		102	85-115	2	20	
Cadmium	0.052	0.00025	mg/L	0.05000		104	85-115	3	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Cobalt	0.0496	0.000250	mg/L	0.05000		99	85-115	3	20	
Copper	0.050	0.00050	mg/L	0.05000		99	85-115	3	20	
Lead	0.050	0.00050	mg/L	0.05000		99	85-115	2	20	
Manganese	0.051	0.00025	mg/L	0.05000		102	85-115	2	20	
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115	4	20	
Nickel	0.049	0.00050	mg/L	0.05000		99	85-115	2	20	
Selenium	0.055	0.0025	mg/L	0.05000		111	85-115	0.8	20	
Silver	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Thallium	0.049	0.00050	mg/L	0.05000		98	85-115	3	20	
Uranium	0.049	0.00050	mg/L	0.05000		99	85-115	3	20	
Zinc	0.11	0.040	mg/L	0.1000		110	85-115	2	20	

Matrix Spike (2107286-MS1)

Source: 21G0391-01

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	0.134	0.0400	mg/L	0.1000	0.0363	97	70-130			
Antimony	0.050	0.00050	mg/L	0.05000	0.00061	99	70-130			
Arsenic	0.054	0.00050	mg/L	0.05000	0.0023	104	70-130			
Barium	0.098	0.00050	mg/L	0.05000	0.047	101	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	ND	101	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	0.00010	94	70-130			
Chromium	0.046	0.00050	mg/L	0.05000	0.00044	92	70-130			
Cobalt	0.0464	0.000250	mg/L	0.05000	0.000467	92	70-130			
Copper	0.049	0.00050	mg/L	0.05000	0.0069	84	70-130			
Lead	0.051	0.00050	mg/L	0.05000	0.00030	102	70-130			
Manganese	0.060	0.00025	mg/L	0.05000	0.013	94	70-130			
Molybdenum	0.053	0.00025	mg/L	0.05000	0.00054	105	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.0031	88	70-130			
Selenium	0.051	0.0025	mg/L	0.05000	0.00076	100	70-130			
Silver	0.044	0.00050	mg/L	0.05000	ND	88	70-130			
Thallium	0.051	0.00050	mg/L	0.05000	0.00026	102	70-130			
Uranium	0.074	0.00050	mg/L	0.05000	0.011	127	70-130			
Zinc	0.15	0.040	mg/L	0.1000	0.059	95	70-130			

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0309  
 Date Received: 07/12/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107286 - E200.8 (5.4)</b>										
<b>Matrix Spike (2107286-MS2)</b>		<b>Source: 21G0428-01</b>			<b>Prepared: 07/23/2021 Analyzed: 07/26/2021</b>					
Aluminum	0.156	0.0400	mg/L	0.1000	0.0607	95	70-130			
Antimony	0.050	0.00050	mg/L	0.05000	0.0011	97	70-130			
Arsenic	0.055	0.00050	mg/L	0.05000	0.0052	99	70-130			
Barium	0.073	0.00050	mg/L	0.05000	0.024	99	70-130			
Beryllium	0.048	0.00025	mg/L	0.05000	ND	96	70-130			
Cadmium	0.044	0.00025	mg/L	0.05000	0.000073	89	70-130			
Chromium	0.044	0.00050	mg/L	0.05000	0.00040	88	70-130			
Cobalt	0.0453	0.000250	mg/L	0.05000	0.000653	89	70-130			
Copper	0.053	0.00050	mg/L	0.05000	0.013	80	70-130			
Lead	0.050	0.00050	mg/L	0.05000	0.00058	99	70-130			
Manganese	0.053	0.00025	mg/L	0.05000	0.0071	92	70-130			
Molybdenum	0.079	0.00025	mg/L	0.05000	0.027	103	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.0044	89	70-130			
Selenium	0.048	0.0025	mg/L	0.05000	ND	96	70-130			
Silver	0.041	0.00050	mg/L	0.05000	ND	82	70-130			
Thallium	0.049	0.00050	mg/L	0.05000	0.00015	98	70-130			
Uranium	0.073	0.00050	mg/L	0.05000	0.012	122	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.024	93	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107138 - SM2540 D</b>										
<b>Duplicate (2107138-DUP1)</b> Source: 21G0056-01 Prepared: 07/13/2021 Analyzed: 07/14/2021										
Total Suspended Solids	ND	10	mg/L		ND			5		Q9, R12
<b>Duplicate (2107138-DUP2)</b> Source: 21G0239-01 Prepared: 07/13/2021 Analyzed: 07/14/2021										
Total Suspended Solids	11	10	mg/L		12			9	5	Q9, R12
<b>Batch 2107155 - SM2540 C</b>										
<b>Duplicate (2107155-DUP1)</b> Source: 21G0315-09 Prepared: 07/14/2021 Analyzed: 07/16/2021										
Total Dissolved Solids (Residue, Filterable)	200	20	mg/L		200			1	5	
<b>Duplicate (2107155-DUP2)</b> Source: 21G0319-03 Prepared: 07/14/2021 Analyzed: 07/20/2021										
Total Dissolved Solids (Residue, Filterable)	15000	20	mg/L		15000			0.9	5	
<b>Duplicate (2107155-DUP3)</b> Source: 21G0319-02 Prepared: 07/14/2021 Analyzed: 07/16/2021										
Total Dissolved Solids (Residue, Filterable)	35	20	mg/L		ND				5	R12
<b>Batch 2107162 - SM4500-NH3 B,C</b>										
<b>Blank (2107162-BLK1)</b> Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
<b>LCS (2107162-BS1)</b> Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		102	90-110			
<b>LCS Dup (2107162-BSD1)</b> Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		101	90-110	0.5	10	
<b>Matrix Spike (2107162-MS1)</b> Source: 21G0280-03 Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	50	5.0	mg/L	50.00	ND	99	75-120			
<b>Matrix Spike (2107162-MS2)</b> Source: 21G0237-04 Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	5.8	0.50	mg/L	5.000	0.49	105	75-120			
<b>Matrix Spike Dup (2107162-MSD1)</b> Source: 21G0280-03 Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	49	5.0	mg/L	50.00	ND	98	75-120	1	20	
<b>Matrix Spike Dup (2107162-MSD2)</b> Source: 21G0237-04 Prepared & Analyzed: 07/14/2021										
Nitrogen, Ammonia (As N)	5.8	0.50	mg/L	5.000	0.49	105	75-120	0	20	
<b>Batch 2107164 - E180.1</b>										
<b>Duplicate (2107164-DUP1)</b> Source: 21G0281-01 Prepared & Analyzed: 07/14/2021										
Turbidity	0.40	0.10	NTU		0.40			0	10	
<b>Duplicate (2107164-DUP2)</b> Source: 21G0352-09 Prepared & Analyzed: 07/14/2021										
Turbidity	2400	20	NTU		2400			0	10	
<b>Batch 2107189 - PAI-DK01</b>										
<b>Blank (2107189-BLK1)</b> Prepared: 07/14/2021 Analyzed: 07/15/2021										
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							

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<b>Batch 2107189 - PAI-DK01</b>										
<b>LCS (2107189-BS1)</b>				Prepared: 07/14/2021 Analyzed: 07/15/2021						
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000		100	80-120			
<b>LCS Dup (2107189-BSD1)</b>				Prepared: 07/14/2021 Analyzed: 07/15/2021						
Nitrogen, Total Kjeldahl	5.2	0.50	mg/L	5.000		104	80-120	4	20	
<b>Matrix Spike (2107189-MS1)</b>		<b>Source: 21G0246-01</b>		Prepared: 07/14/2021 Analyzed: 07/15/2021						
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000	ND	99	80-120			
<b>Matrix Spike Dup (2107189-MSD1)</b>		<b>Source: 21G0246-01</b>		Prepared: 07/14/2021 Analyzed: 07/15/2021						
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000	ND	100	80-120	0.9	20	
<b>Batch 2107201 - E150.1</b>										
<b>Duplicate (2107201-DUP1)</b>		<b>Source: 21G0352-06</b>		Prepared & Analyzed: 07/16/2021						
pH (pH Units)	8.0		-		7.9			0.1	200	H5
Temperature (°C)	23		-		23			0.4	200	H5
<b>Duplicate (2107201-DUP2)</b>		<b>Source: 21G0388-04</b>		Prepared & Analyzed: 07/16/2021						
pH (pH Units)	8.0		-		7.6			5	200	H5
Temperature (°C)	21		-		24			16	200	H5
<b>Batch 2107227 - PAI-DK01</b>										
<b>Blank (2107227-BLK1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
<b>LCS (2107227-BS1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		103	80-120			
<b>LCS Dup (2107227-BSD1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		102	80-120	0.8	20	
<b>Matrix Spike (2107227-MS1)</b>		<b>Source: 21G0316-01</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	59	5.0	mg/L	50.00	13	91	80-120			
<b>Matrix Spike (2107227-MS2)</b>		<b>Source: 21G0415-02</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	9.9	0.50	mg/L	5.000	5.0	97	80-120			
<b>Matrix Spike Dup (2107227-MSD1)</b>		<b>Source: 21G0316-01</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	59	5.0	mg/L	50.00	13	92	80-120	0.7	20	
<b>Matrix Spike Dup (2107227-MSD2)</b>		<b>Source: 21G0415-02</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021						
Nitrogen, Total Kjeldahl	9.9	0.50	mg/L	5.000	5.0	98	80-120	0.6	20	
<b>Batch 2107241 - SM4500-NH3 B,C</b>										
<b>Blank (2107241-BLK1)</b>				Prepared & Analyzed: 07/21/2021						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
<b>LCS (2107241-BS1)</b>				Prepared & Analyzed: 07/21/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		102	90-110			
<b>LCS Dup (2107241-BSD1)</b>				Prepared & Analyzed: 07/21/2021						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000		98	90-110	4	10	

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107241 - SM4500-NH3 B,C</b>										
<b>Matrix Spike (2107241-MS1)</b> Source: 21G0290-01 Prepared & Analyzed: 07/21/2021										
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.16	97	75-120			
<b>Matrix Spike (2107241-MS2)</b> Source: 21G0294-01 Prepared & Analyzed: 07/21/2021										
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.18	94	75-120			
<b>Matrix Spike Dup (2107241-MSD1)</b> Source: 21G0290-01 Prepared & Analyzed: 07/21/2021										
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.16	94	75-120	3	20	
<b>Matrix Spike Dup (2107241-MSD2)</b> Source: 21G0294-01 Prepared & Analyzed: 07/21/2021										
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.18	95	75-120	0.9	20	
<b>Batch 2107243 - SM4500-SiO2 C</b>										
<b>Blank (2107243-BLK1)</b> Prepared & Analyzed: 07/21/2021										
Silica	ND	2.0	mg/L							
<b>LCS (2107243-BS1)</b> Prepared & Analyzed: 07/21/2021										
Silica	8.3	2.0	mg/L	8.000		103	90-110			
<b>LCS Dup (2107243-BSD1)</b> Prepared & Analyzed: 07/21/2021										
Silica	8.3	2.0	mg/L	8.000		103	90-110	0	20	
<b>Matrix Spike (2107243-MS1)</b> Source: 21G0177-01 Prepared & Analyzed: 07/21/2021										
Silica	54	10	mg/L	40.00	14	100	85-115			
<b>Matrix Spike Dup (2107243-MSD1)</b> Source: 21G0177-01 Prepared & Analyzed: 07/21/2021										
Silica	54	10	mg/L	40.00	14	98	85-115	1	20	
<b>Batch 2107264 - SM2320B</b>										
<b>Blank (2107264-BLK1)</b> Prepared & Analyzed: 07/22/2021										
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
<b>LCS (2107264-BS1)</b> Prepared & Analyzed: 07/22/2021										
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		97	90-110			
<b>LCS Dup (2107264-BSD1)</b> Prepared & Analyzed: 07/22/2021										
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		98	90-110	2	10	
<b>Matrix Spike (2107264-MS1)</b> Source: 21G0525-02 Prepared & Analyzed: 07/22/2021										
Alkalinity, Total (As CaCO3)	400	2.0	mg/L	250.0	130	106	70-130			
<b>Matrix Spike Dup (2107264-MSD1)</b> Source: 21G0525-02 Prepared & Analyzed: 07/22/2021										
Alkalinity, Total (As CaCO3)	360	2.0	mg/L	250.0	130	92	70-130	9	10	
<b>Batch 2107281 - SM2320B</b>										

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107281 - SM2320B</b>										
<b>Blank (2107281-BLK1)</b>				Prepared & Analyzed: 07/23/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
<b>LCS (2107281-BS1)</b>				Prepared & Analyzed: 07/23/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110			
<b>LCS Dup (2107281-BSD1)</b>				Prepared & Analyzed: 07/23/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		95	90-110	0.8	10	
<b>Matrix Spike (2107281-MS1)</b>		<b>Source: 21G0524-01</b>		Prepared & Analyzed: 07/23/2021						
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	110	93	70-130			
<b>Matrix Spike Dup (2107281-MSD1)</b>		<b>Source: 21G0524-01</b>		Prepared & Analyzed: 07/23/2021						
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	110	94	70-130	0.6	10	
<b>Batch 2107290 - SM2510 B</b>										
<b>LCS (2107290-BS1)</b>				Prepared & Analyzed: 07/26/2021						
Conductivity	150	0.10	µmhos/cm	141.2		104	0-200			
<b>LCS Dup (2107290-BSD1)</b>				Prepared & Analyzed: 07/26/2021						
Conductivity	150	0.10	µmhos/cm	141.2		105	0-200	0.7	200	
<b>Duplicate (2107290-DUP1)</b>		<b>Source: 21G0352-01</b>		Prepared & Analyzed: 07/26/2021						
Conductivity	160	0.10	µmhos/cm		160			0	10	
<b>Duplicate (2107290-DUP2)</b>		<b>Source: 21G0309-03</b>		Prepared & Analyzed: 07/26/2021						
Conductivity	280	0.10	µmhos/cm		280			0.4	10	

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107129 - E300.0 (2.1)</b>										
<b>Blank (2107129-BLK1)</b>				Prepared & Analyzed: 07/12/2021						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
<b>LCS (2107129-BS1)</b>				Prepared & Analyzed: 07/12/2021						
Chloride	12	1.0	mg/L	12.50		99	90-110			
Fluoride	2.0	0.50	mg/L	2.000		101	90-110			
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		99	90-110			
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500		102	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		107	90-110			
Sulfate	13	5.0	mg/L	12.50		104	90-110			
<b>LCS Dup (2107129-BSD1)</b>				Prepared & Analyzed: 07/12/2021						
Chloride	12	1.0	mg/L	12.50		99	90-110	0.3	10	
Fluoride	2.0	0.50	mg/L	2.000		100	90-110	0.7	10	
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		100	90-110	0.2	10	
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500		103	90-110	0.6	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		106	90-110	0.7	10	
Sulfate	13	5.0	mg/L	12.50		104	90-110	0.3	10	
<b>Matrix Spike (2107129-MS1)</b>				Source: 21G0280-04		Prepared: 07/12/2021 Analyzed: 07/21/2021				
Chloride	13	1.0	mg/L	12.50	ND	101	80-120			
Fluoride	2.1	0.50	mg/L	2.000	ND	107	80-120			
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000	ND	103	80-120			
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500	ND	106	80-120			
Sulfate	14	5.0	mg/L	12.50	ND	111	80-120			
<b>Matrix Spike (2107129-MS2)</b>				Source: 21G0269-02		Prepared: 07/12/2021 Analyzed: 07/21/2021				
Nitrogen, Nitrate (As N)	6.0	0.50	mg/L	5.000	0.92	103	80-120			
<b>Matrix Spike Dup (2107129-MSD1)</b>				Source: 21G0280-04		Prepared: 07/12/2021 Analyzed: 07/21/2021				
Chloride	13	1.0	mg/L	12.50	ND	102	80-120	0.2	10	
Fluoride	2.2	0.50	mg/L	2.000	ND	110	80-120	3	10	
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000	ND	103	80-120	0.008	10	
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500	ND	107	80-120	0.3	10	
Sulfate	14	5.0	mg/L	12.50	ND	112	80-120	1	10	
<b>Matrix Spike Dup (2107129-MSD2)</b>				Source: 21G0269-02		Prepared: 07/12/2021 Analyzed: 07/21/2021				
Nitrogen, Nitrate (As N)	6.1	0.50	mg/L	5.000	0.92	104	80-120	1	10	

